

RETRACTABLE RAMP SYSTEM FOR A MOBILITY VEHICLEABSTRACT OF THE DISCLOSURE

5 A retractable ramp system 10 for a mobility vehicle. A ramp platform 12 is driven by a reversible motor 86, associated drive pulley 88, and drive belt 18 affixed to a ramp carriage assembly 14. A spring-loaded mechanical release assembly 98 is used to engage the drive pulley to the motor and to disengage the drive pulley from the motor. A manual control assembly is used for manual deployment of the ramp when the drive
10 pulley is disengaged from the motor. Ramp flap 52 provides a transition between ramp platform 12 and a mobility vehicle. Ramp flap is supported by wheels 54 which translate along ramp platform 12. Linear bearing blocks 30 attach to pivot arms 44 of the carriage assembly, which are in turn pivotably attached to ramp platform 12. Linear bearing blocks 30 translate ramp platform 12 along guide shafts 32 during deployment
15 and stowage.